# SCAQMD AB2588 Facility Prioritization Procedures & Supplemental Guidance Update

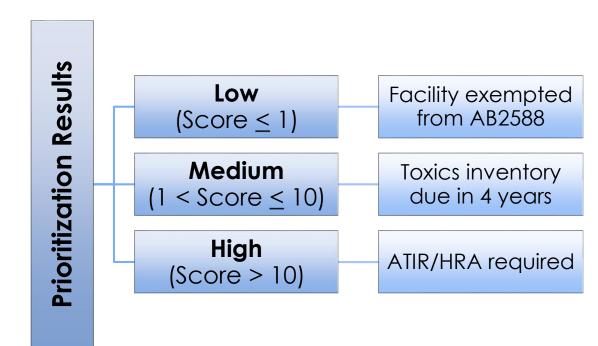
RULE 1402 WORKING GROUP SEPTEMBER 28, 2016

#### Background Proposed AB2588 Guidance Updates

- Proposing updates to Facility Prioritization Procedures for AB2588 to more accurately score facilities
  - Better identify facilities that are less than the Rule 1402 Notification Level
  - Streamline implementation
  - Better use of SCAQMD resources
- Proposing updates to the AB2588 Supplemental HRA Guidelines
  - Update to improve clarity
  - Incorporate proposed amendments to Rule 1402
  - ► Incorporate requirements for Risk Reduction Plans

#### Background Current Prioritization Requirements

- ► AB2588 requires certain facilities to report toxics emissions every 4 years [H&S Code 44344]
- Facilities must be prioritized in a manner consistent with guidelines prepared by CAPCOA [H&S Code 44344.4(c)]
- Prioritization procedure places facilities into categories based on a conservative, screening-level health risk assessment
  - Health risk assessment similar to Rule 1401 Tier 1 approach



#### Update on Recent AB2588 Activity

#### OEHHA HRA Guidance Update (2015)

- Updates childhood risk estimates
- Residential cancer risks increase ~3X, even at same emissions level

#### SCAQMD Rule 1402 Update (2015)

- Incorporates
   OEHHA update
- Guidance documents updated



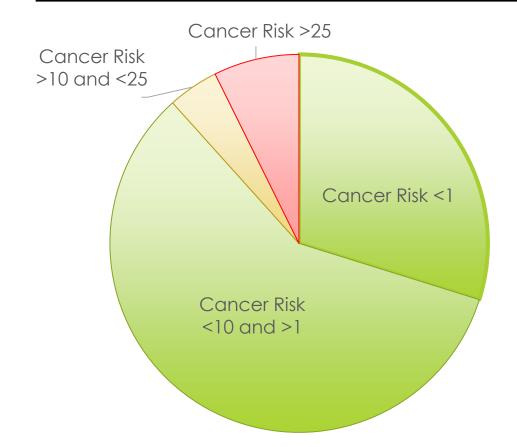
Incorporates
 OEHHA update

### Current SCAQMD Prioritization Procedures Approach

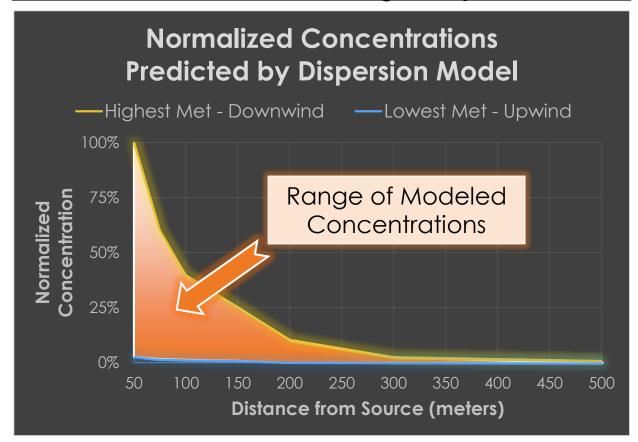
- Key Inputs (reported in AER)
  - Total Facility Emissions (by pollutant)
  - Closest Receptor Distance (resident and worker)
- Key Parameters Used to Calculate Priority Score
  - Worst case meteorology from entire Basin
  - Receptors assumed to be downwind
  - Conservative stack parameters
- Audit conducted by staff to ensure emissions and receptor distance are correct.

### Key Observations from Implementing Current Prioritization Procedures

#### >80% of HRA's below Public Notification Level



#### <u>Prioritization Procedure modeling is very conservative</u>



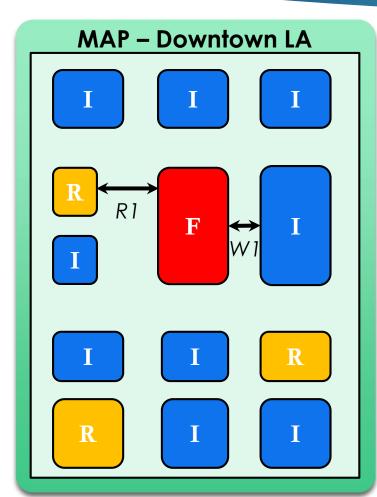
#### Proposed Prioritization Approach

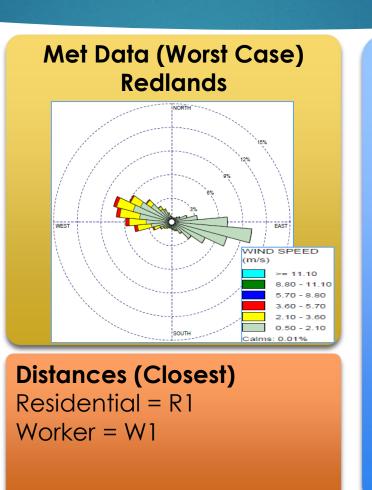
- ► Current prioritization procedure is similar to Rule 1401 Tier 1
- Staff is proposing a prioritization procedure that uses more accurate meteorology and receptor locations, similar to a Rule 1401 Tier 3 analysis
- Proposed prioritization approach:
  - Current Procedure + Refined Meteorology + Refined Receptor Locations
- Proposed approach uses the same emissions data and assumes same conservative stack parameters

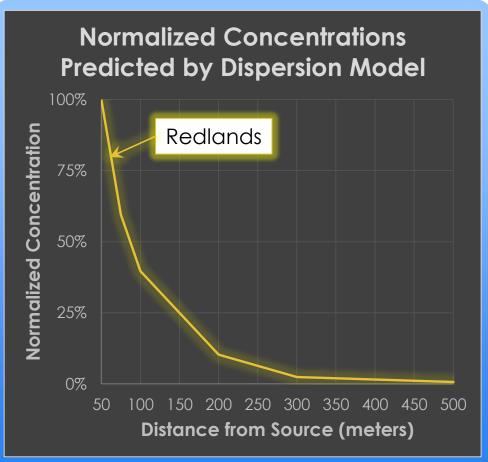
#### Proposed Prioritization Approach

- Key Inputs
  - Total Facility Emissions (by pollutant)
  - Closest Receptor Distance (resident and worker)
  - Facility Location
  - Receptor Locations (staff input)
- Key Parameters Used to Calculate Priority Score
  - ► Worst case Meteorology from entire Basin local area
  - Receptors in actual location assumed to be downwind
  - Conservative stack parameters

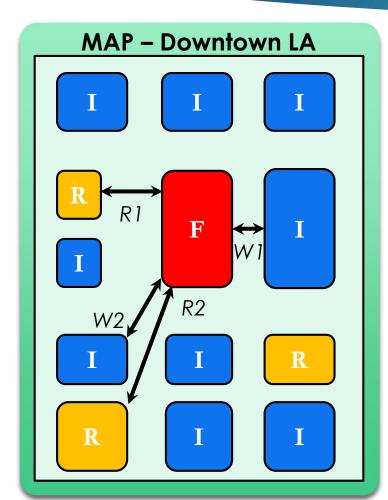
#### Example – Current Prioritization Approach

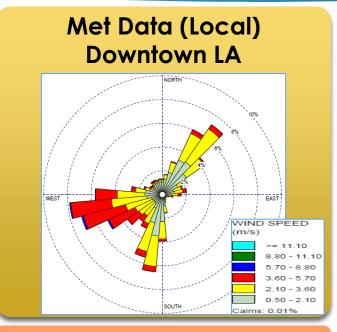


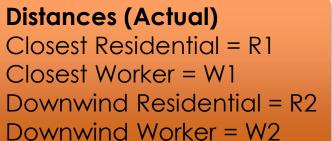


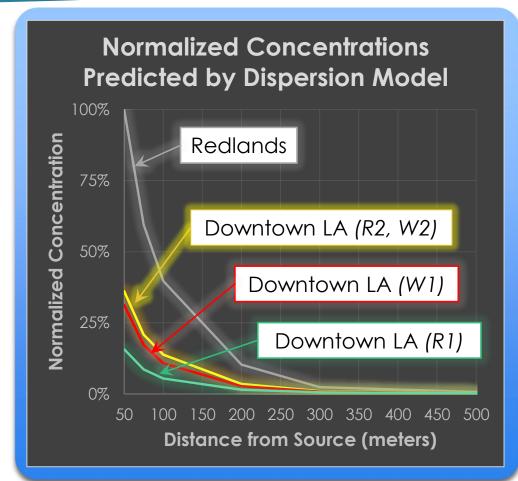


#### Example – Proposed Prioritization Approach



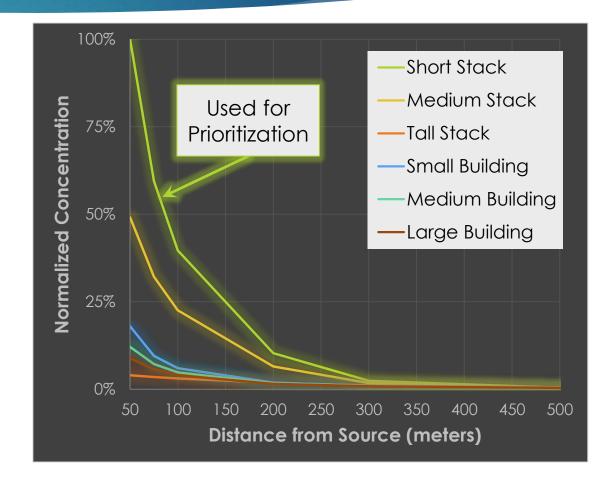






### Conservative Assumptions That Would Remain in Prioritization

- All emissions assumed to come out of one stack
- Stack assumed to be short, with low velocity (less dispersion)
- Emissions assumed to occur over 24-hour day, including during calm nighttime meteorology (less dispersion)



## Potential Impact of Proposed Prioritization Guidance Update on SCAQMD AB2588 Program

Quadrennial Reporting Year	Total Number of AB2588 Core Facilities	Current Approach PS>10	Proposed Approach PS>10
2014	65	29	19
2015	159	63	35

> ~40% reduction in facilities with Priority Score >10

### Update to SCAQMD AB2588 Supplemental Guidelines

- Guidance last updated in 2015 to take into account new OEHHA HRA Guidelines
- Proposed guidance update provides clarification on:
  - Inclusion of emissions data after HRA base year
    - ▶ Presentation to Stationary Source Committee June 2015
  - ► Guidance for elements to be included in Risk Reduction Plans and Progress Reports
  - Proposed amendments to Rule 1402
    - ► Early Action Reduction Plans for Potentially High Risk Facilities
    - ► Voluntary Risk Reduction Plans
  - Other minor clarifications

### Supplemental Guidance Update – Inclusion of Recent Emissions Data Into HRA

- ► AB2588 HRAs take 'snapshot' of a Base Year emissions inventory
  - Base Year is most recent quadrennial year unless Executive Officer specifies a different year
- Not uncommon that more recent emissions are substantially different than Base Year
- HRA can include supplemental appendix describing how risks would be different based on more recent data
- Base Year used to compare HRA risks against Rule 1402 <u>Public Notification Threshold</u>
- Most recent emissions year can be used to compare HRA risks against Rule 1402 Risk Reduction Threshold only if:
  - Emission reductions are permanent, enforceable, and verifiable

#### Risk Reduction Plan Elements

- No new requirements proposed
- Some RRP elements are similar to HRA elements
  - Facility identifying information (e.g., Facility ID)
  - Updated Emissions Inventory + Dispersion modeling + HRA
- Additional elements
  - Identification of sources to be controlled, the level of control, and estimate of post-RRP residual risk
    - ► Engineering analysis demonstrating effectiveness of measures
  - Schedule of implementation
  - Certification by an official responsible for operation of the facility
  - ▶ If necessary, a request for time extension and the justification for the request

#### Risk Reduction Progress Reports

- ► Facilities implementing a RRP or VRRP must submit an Annual Risk Reduction Progress Report
- Update to Supplemental Guidelines includes elements to include in report
  - ▶ A description of emissions increases/decreases since RRP or VRRP approval
  - ▶ The increment of progress made to reduce risks over previous twelve months
  - Submittal date and status of all applicable permit applications, including for other agencies
  - Schedule of future expected increments of progress, and any expected delays compared to the schedule included in the RRP or VRRP

### Guidance for Proposed Amendments to Rule 1402

- No new requirements proposed
- Voluntary Risk Reduction
  - Proposed update to Supplemental Guidelines points to Voluntary Risk Reduction
     Program Guidelines included in Rule 1402 Board package for October
- Potentially High Risk Facilities
  - Proposed update to Supplemental Guidelines copies proposed rule language

#### Comments?

Submit comments to:

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